MATERIAL CONDITIONAL TABLE					
CODE	CONDITION	SPECIFICATION	MIN YIELD TENSILE STRENGTH (KSI)	MIN ULTIMATE TENSILE STRENGTH (KSI)	
(OMITTED)	MIN 1/4 HARD	AMS 5517/ 5518/5902/5519 OR ASTM A666	75	125	
H0	ANNEALED	AMS 5901 OR ASTM A666	30	75	
H25	1/4 HARD	AMS 5517 OR ASTM A666	75	125	
H50	1/2 HARD	AMS 5518 OR ASTM A666	110	150	
H75	3/4 HARD	AMS 5902 OR ASTM A666	135	175	
H100	FULL HARD	AMS 5519 OR ASTM A666	140	180	

NOTES: COMPRESSIVE STRENGTH VARIES SIGNIFICANTLY DEPENDING ON GRAIN DIRECTION. CARE IS REQUIRED FOR USE IN COMPRESSIVE LOAD APPLICATIONS. DESIGN VALUES ARE LOWER THAN SPECIFICATION MINIMUMS, REFER TO MMPDS.

GAUGE THICKNESS TABLE THICKNESS THICKNESS NOMINAL NOMINAL GAUGE **GAUGE THICKNESS** RANGE **THICKNESS** RANGE 0.0344 0.0324-0.0364 0.0062 0.0052-0.0072 21 38 0.0066 0.0056-0.0076 20 0.0375 0.0345-0.0405 37 36 0.0070 0.0060-0.0080 19 0.0437 0.0407-0.0467 35 0.0078 0.0068-0.0088 18 0.0500 0.0470-0.0530 17 34 0.0086 0.0076-0.0096 0.0562 0.0532-0.0592 16 0.0625 0.0094 0.0084-0.0104 0.0595-0.0655 33 32 15 0.0663-0.0743 0.0102 0.0092-0.0112 0.0703 31 0.0109 0.0099-0.0119 14 0.0781 0.0741-0.0821 30 0.0125 0.0110-0.0140 13 0.0937 0.0897-0.0977 29 12 0.1094 0.1044-0.1144 0.0141 0.0126-0.0156 11 0.1250 28 0.0156 0.0141-0.0171 0.1200-0.1300 27 0.0172 0.0157-0.0187 10 0.1406 0.1356-0.1456 26 0.0187 0.0172-0.0202 9 0.1562 0.1512-0.1612 0.1659-0.1779 25 0.0219 0.0199-0.0239 8 0.1719 0.0250 7 0.1875 24 0.0230-0.0270 0.1815-0.1935 23 0.0281 0.0261-0.0301 6 0.2031 0.1971-0.2091 22 0.0312 0.0292-0.0332

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 301 STAINLESS STEEL SHEET

SPECIFICATION: PER MATERIAL CONDITION TABLE

FINISH: UNPOLISHED NO. 2B

PART NUMBER: M301S[TT]GA-[HHH]

WHERE "TT" = GAUGE THICKNESS PER GAUGE THICKNESS REFERENCE TABLE WHERE "HHH" = MATERIAL CONDITION PER MATERIAL CONDITION TABLE

EG.: 16 GAUGE STAINLESS STEEL SHEET 2B FINISH 1/4 HARD MINIMUM = M301S16GA EG.: 19 GAUGE STAINLESS STEEL SHEET 2B FINISH 1/2 HARD = M301S19GA-H50

2021 SEP 0 8 HB ECR 21-264

REV.	DESCRIPTION	BY	DATE
Α	NEW ISSUE	RF	10.11.08
С	ADDED MATERIAL CONDITION TABLE. USED MIN 1/4 HARD WHEN OMITTED SUCH AS NOT TO AFFECT EXISTING PARTS	NO	19.03.01
С	ADDED GAUGE NUMBERS 27 TO 38, THICKNESS RANGE UPDATE PER ASTM A480	KPT	21.09.01

PPROVED	DESIGN	RF	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
	DRAWN	KPT			
	CHECKED	ZF	DRAWING NO.	REV. C	
	MFG. APPR.	RA	M301S	SHEET 1 OF 1	
	APPROVED	ZF	TITLE	SCALE	
	DE APPR.	CP 4	301 SS SHEET	NTS	
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